



National Transportation Plan Overview

Presented to:

Transportation External Coordination Working Group

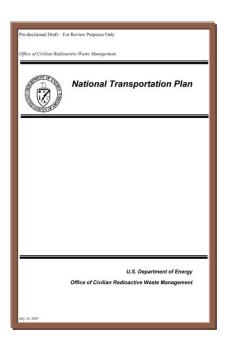
Presented by:

Judith Holm
Office of Logistics Management

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Introduction

- The Office of Logistics Management (OLM) has prepared a draft comprehensive National Transportation Plan (NTP)
- Developing the NTP is one of four strategic OCRWM program objectives
- Elements of the plan include
 - Requirements
 - Infrastructure development
 - Stakeholder involvement
 - Operations planning
- OLM has reached out to state, local, and tribal government and industry to solicit their input
- A formal comment and response document will be issued when the plan is finalized





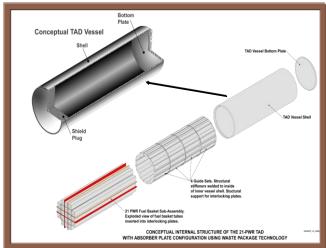
Purpose of Plan

- Plan outlines the strategy and process for developing a transport system to support operation of the Yucca Mountain repository in 2017
 - Spent nuclear fuel (SNF) and high-level radioactive waste (HLW) must be transported <u>safely</u> and <u>securely</u> from origin sites
 - Lays out a vision for the transportation system when it is operational
- Gives status of current development efforts
- Outlines roles of participants and opportunities for stakeholder input
- Reviews issues/decisions that have shaped the plan
 - Presents outstanding issues and resolution process



Situation Assessment

- Two OLM projects will develop the capital assets of the transportation system guided by Department of Energy (DOE) orders
 - National Transportation Shipping casks and special rail cars
 - Nevada Rail
- Builds on past planning efforts and recognizes commercial and government experience in safely shipping spent nuclear fuel
- Identifies policies and requirements that will govern the transportation system
 - Sections 180 and 137 of the Nuclear Waste Policy Act, as amended
 - Meet or exceed Nuclear Regulatory
 Commission and Department of
 Transportation regulations
 - Industry standards
- Presents key milestones and dates





Situation Assessment

- Documents transportation issues that have been resolved
 - Rail shipments will be in dedicated trains
 - Commercial Vehicle Safety Alliance Level VI Inspection Standard will be used for truck shipments
- Assumptions include
 - Funds will be available
 - Railroad will be fully operational in 2014
 - Planning grants supporting 180(c) training will be issued four years in advance of shipments—2013
- Wastes for transport include 63,000 metric tons of commercial spent fuel and 7,000 metric tons of DOE SNF and HLW
- A transportation, aging, and disposal (TAD) canister-based system will be utilized





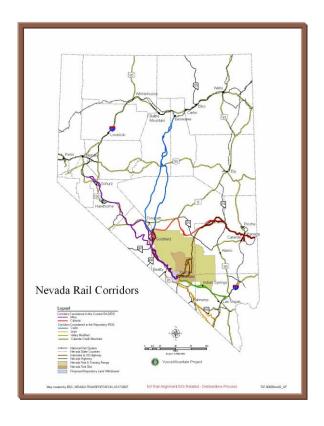
Situation Assessment

- Standard Contract with utilities establishes the basis under which DOE will accept commercial SNF
- Ongoing benchmarking will identify and incorporate "best practices" for transportation logistics enterprises
- Constraints outside the control of OLM include
 - Congressional direction
 - Court decisions
 - Market conditions
- OLM will address project risks that can be influenced and mitigated





- Elements of the Nevada rail line include
 - Equipment yard
 - Sidings
 - Train control center
 - Maintenance-of-way facilities
- Industry is being engaged to inform OLM on contracting for the final design, construction and operations of the rail line
 - Via a Request for Information issued in June 2007 potential vendors were asked to provide comments on approaches to design, construction and operation of a railroad in Nevada



 OLM will request a Federal Railroad Administration safety inspection of the rail line prior to commissioning and putting it into service

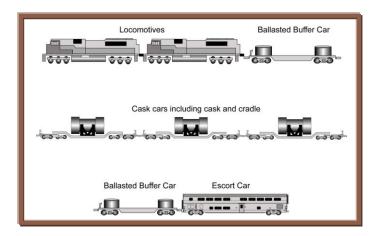




- National Transportation Project will acquire
 - Shipping casks for truck and rail
 - Special rail cars
 - Maintenance facilities for casks, rolling stock, and transfer and maintenance equipment
- Efforts to acquire TAD canisters are underway
 - Request for proposal for the final design, NRC certification, and demonstration casks issued in July 2007
 - Receipt is planned for 2016
- DOE will procure casks needed for start-up
 - Cask fleet acquisition will transition to the private sector under operational contracts
 - Estimates show that 100 to 120 casks will be needed to ship 3,000 metric tons per year



- Rolling stock will be designed to and tested to meet Association of American Railroads Standard-2043
 - Estimates call for
 - 120 cask cars
 - 60 buffer cars
 - 15 escort cars



- OLM plans to contract for logistics services
 - Trucks and trailers would be included in service contracts
- The operations delivery commitment schedule with utilities will be finalized 63 months prior to the shipment





- Exercises, practice runs with empty casks, and readiness reviews will verify system readiness
- Two years prior to a shipment, site campaign plans will formalize agreements on specific roles and responsibilities of shipping site, states, tribes, commercial carriers, DOE and other federal agencies
- Shipments will be inspected prior to departure by federal and state inspectors
- En-route inspections will follow
 - FRA Safety Compliance Oversight Plan and state rail safety programs
 - Commercial Vehicle Safety Alliance Level VI Standard
- Prior studies evaluating utility site capabilities and their transportation infrastructure will be updated





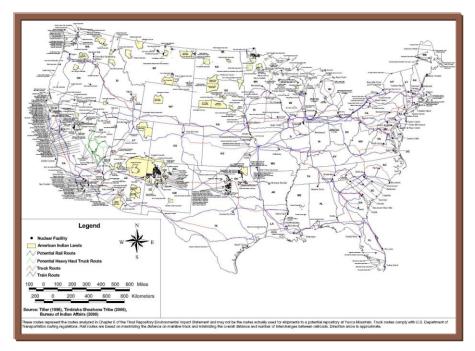
- OCRWM will track shipments in transit integrating
 - Geographic location capabilities
 - Onboard monitoring
 - Two-way communications
- Stakeholder interactions will continue through operations
 - Industry
 - Tribes
 - State Regional Groups
 - National organizations
 - Transportation External Coordination Working Group (TEC)
 - Other federal agencies





Key Logistics Development Initiatives

- Route identification process has begun to identify criteria
- Identifying routes is a prerequisite for
 - State, tribal and local governments' planning and training activities
 - DOE campaign plans and contractual requirements
- Preliminary suite of routes will be identified in 2009







180(c) Implementation

- DOE has responsibility to provide funding and assistance to states, tribes and local officials for OCRWM shipments
- 180(c) program will be implemented in three stages
 - Develop the proposed grant policy and implementation steps
 - Conduct a limited pilot
 - Establish grant process to award funds in 2013
 - Initial assessment and planning grant
 - Training grant
 - Full operations involving eligible states and tribes
 - Training and exercises
 - Technical assistance







Other Plan Elements

- Outstanding issues and their resolution method
- OLM organization
- Responsibilities of OLM and its planning partners
 - Transportation industry
 - States and tribes
 - Local governments
 - Utilities
 - Transportation industry
 - Other DOE programs and federal agencies
- Baselines
- Milestone schedule
- Cost basis/budget





Next Steps

- Comments from TEC meeting will be reviewed next week
- DOE will conduct internal review to refine and amend plan
- An amended draft will be published on OCRWM website by August 6th
- Comments due September 7th





How to Comment

- We welcome your comments
 - OCRWM website
 - http://www.ocrwm.doe.gov/
 - Click on Transporting Nuclear Waste
 - Email
 - Corinne.Macaluso@rw.doe.gov
 - Jennifer.Patric@rw.doe.gov

